FIG. 1

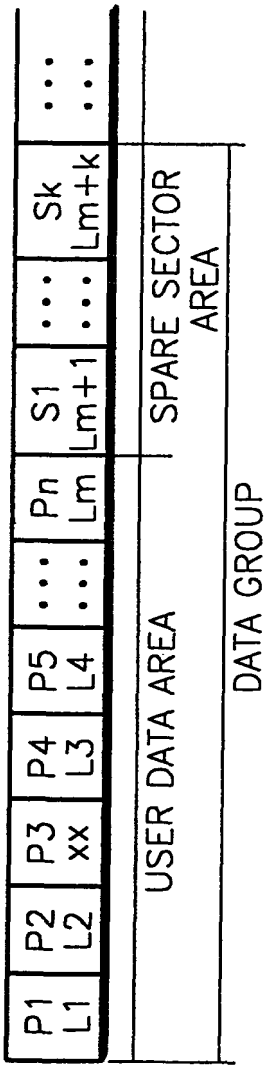
P1 L1
P2 L2
P3 xx
P4 L3
P5 L4
...
Pn Lm
S1 Lm+1
...
Sk Lm+k
...
USER DATA AREA
SPARE SECTOR AREA
DATA GROUP

FIG. 2

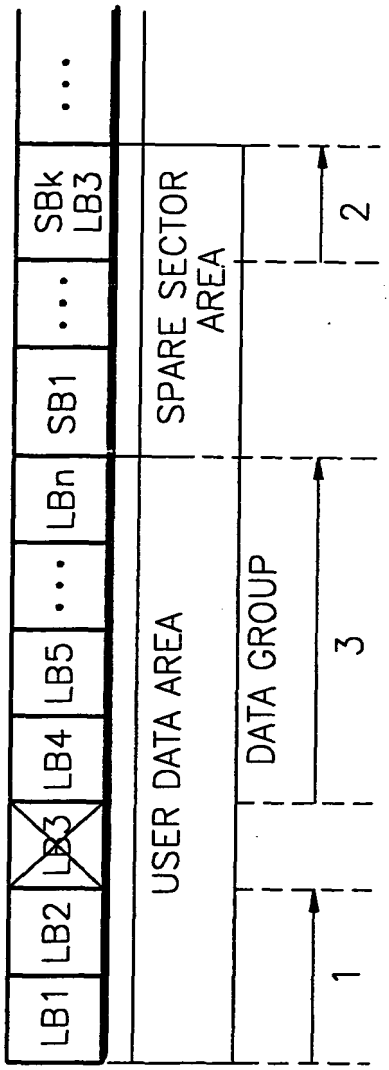
LB1
LB2
LB3
LB4
LB5
...
LBn
SB1
...
SBk LB3
...
USER DATA AREA
SPARE SECTOR AREA
DATA GROUP
1
2
3

FIG. 3

BP	Contents	Number of bytes
0 to 1	DDS Identifier(OAOAh)	2bytes
2	Reserved	1byte
3	Disc certification Flag	1byte
4 to 7	DDS/PDL, update counter	4bytes
8 to 9	Number of Groups	2bytes
10 to 15	Reserved	6bytes
16	Group certification for Group0	
17	Group certification for Group1	
. . .	. . .	
39	Group certification for Group23	64bytes
40 to 79	Reserved	
80 to 2047	Reserved	1968bytes

FIG. 4A

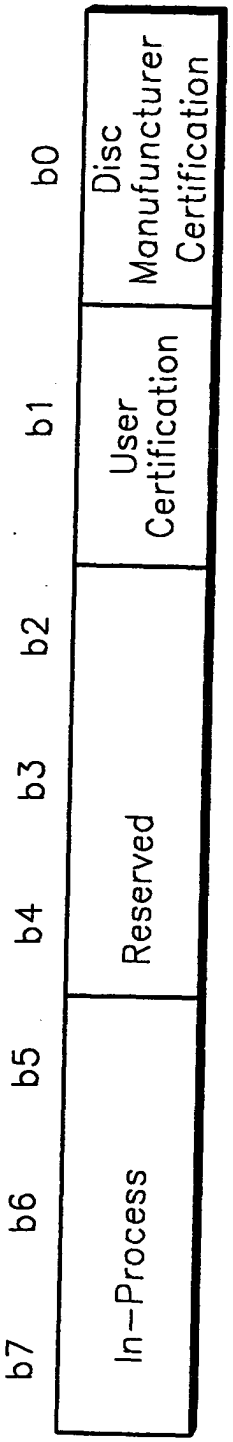
b7
b6
b5
b4
b3
b2
b1
b0
In-Process
Reserved
User Certification
Disc Manufuncturer Certification

FIG. 4B

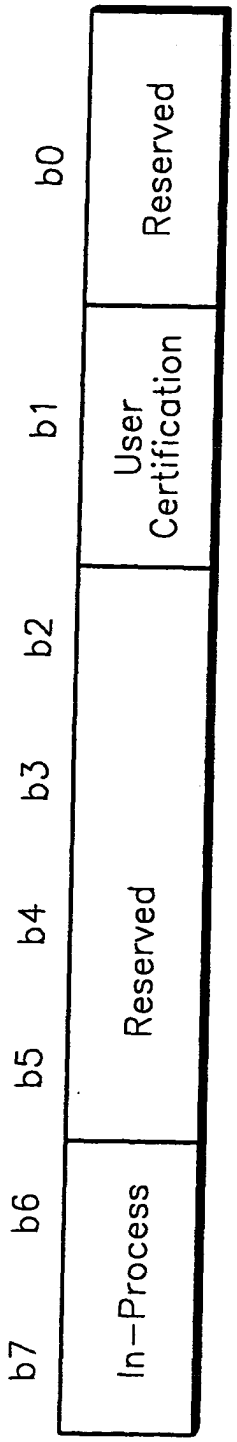
b7
b6
b5
b4
b3
b2
b1
b0
In-Process
Reserved
User Certification
Reserved

FIG. 5

BP	Contents	Number of bytes
0 to 1	SDL Identifier(0002h)	2bytes
2 to 3	Reserved	2bytes
4 to 7	SDL update counter	4bytes
8 to 15	Spare area full flag	8bytes
16 to 19	DDS/PDL, update counter	4bytes
20 to 21	Reserved	2bytes
22 to 23	number of SDL entries	2bytes
24 to 31	first SDL entry	8bytes
. . .	. . .	. . .
m to m+7	last SDL entry	8bytes

FIG. 6

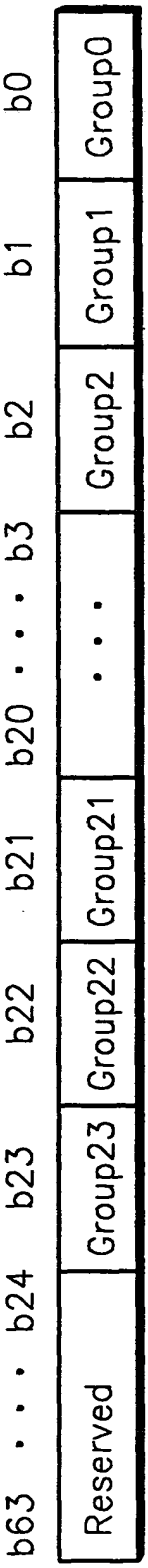
b63 • • • b24
b23
b22
b21
b20 • • • b3
b2
b1
b0
Reserved
Group23
Group22
Group21
• • •
Group2
Group1
Group0

FIG. 7

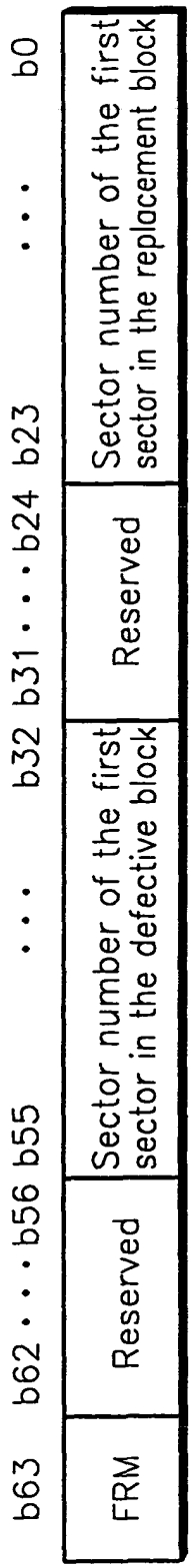
b63
b62 • • • b56
b55 • • • b32
b31 • • • b24
b23 • • • b0
FRM
Reserved
Sector number of the first sector in the defective block
Reserved
Sector number of the first sector in the replacement block

FIG. 8A

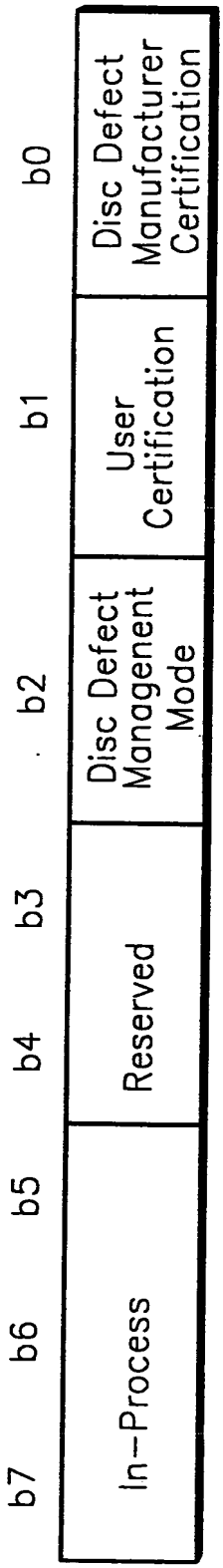
b7
b6
b5
b4
b3
b2
b1
b0
In-Process
Reserved
Disc Defect Managenent Mode
User Certification
Disc Defect Manufacturer Certification

FIG. 8B

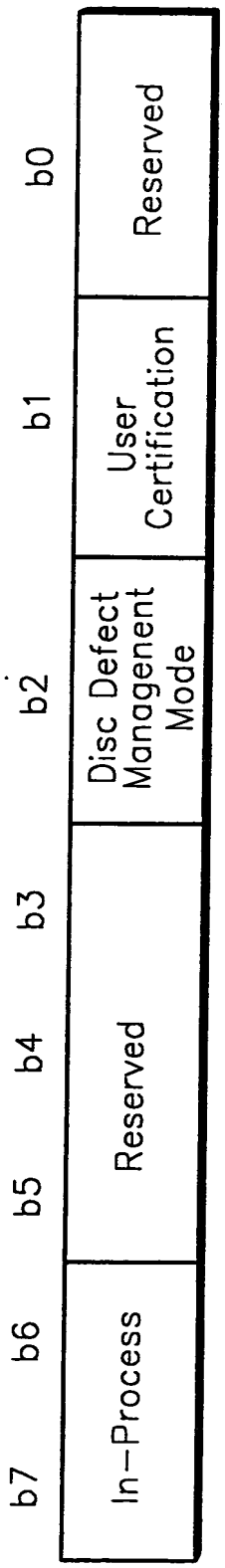
b7
b6
b5
b4
b3
b2
b1
b0
In-Process
Reserved
Disc Defect Managenent Mode
User Certification
Reserved

FIG. 9

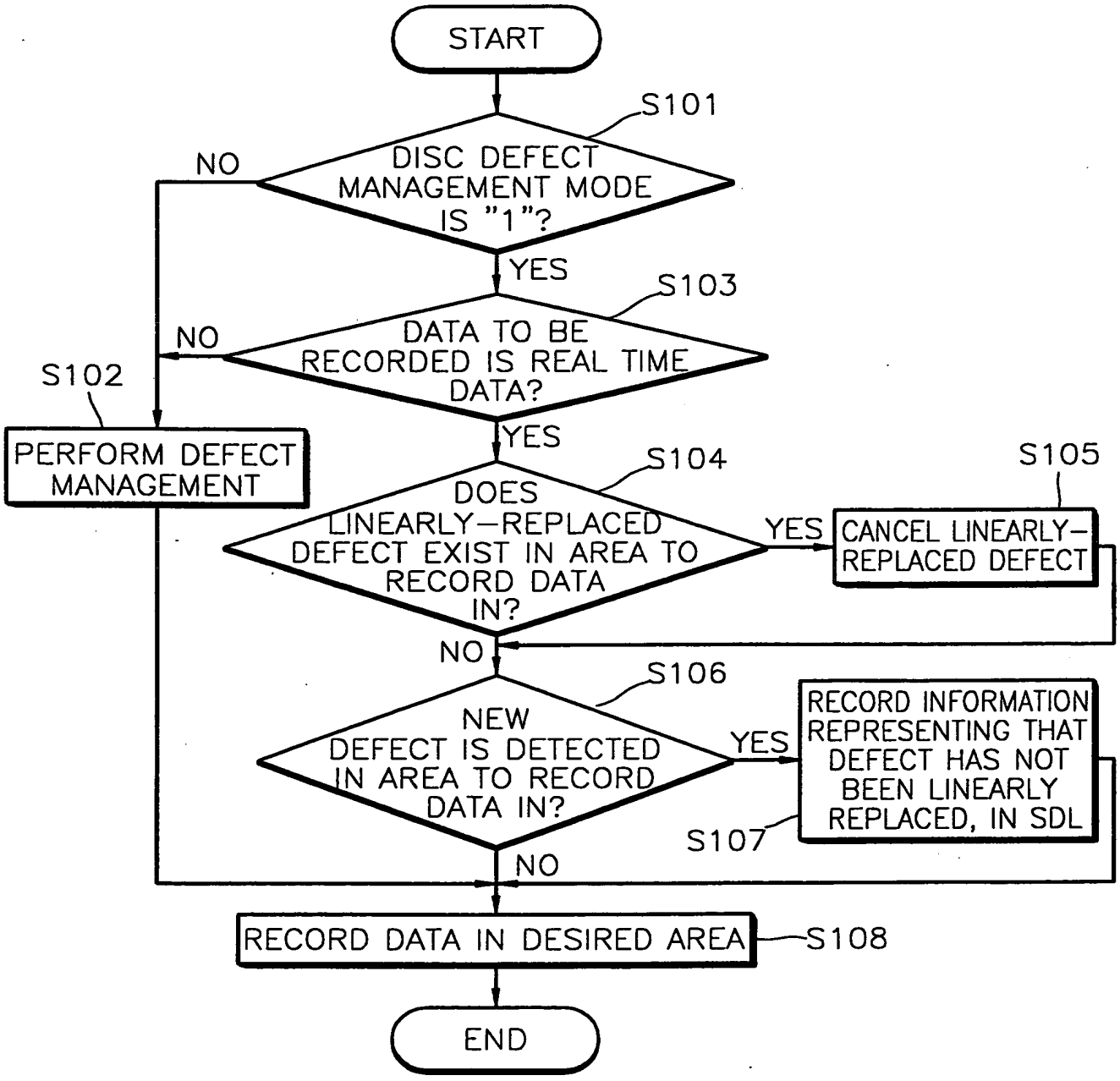
START
S101
DISC DEFECT MANAGEMENT MODE IS "1"?
NO
YES
S103
DATA TO BE RECORDED IS REAL TIME DATA?
NO
YES
S102
PERFORM DEFECT MANAGEMENT
S104
DOES LINEARLY-REPLACED DEFECT EXIST IN AREA TO RECORD DATA IN?
YES
S105
CANCEL LINEARLY-REPLACED DEFECT
NO
S106
NEW DEFECT IS DETECTED IN AREA TO RECORD DATA IN?
YES
RECORD INFORMATION REPRESENTING THAT DEFECT HAS NOT BEEN LINEARLY REPLACED, IN SDL
S107
NO
RECORD DATA IN DESIRED AREA
S108
END

FIG. 10

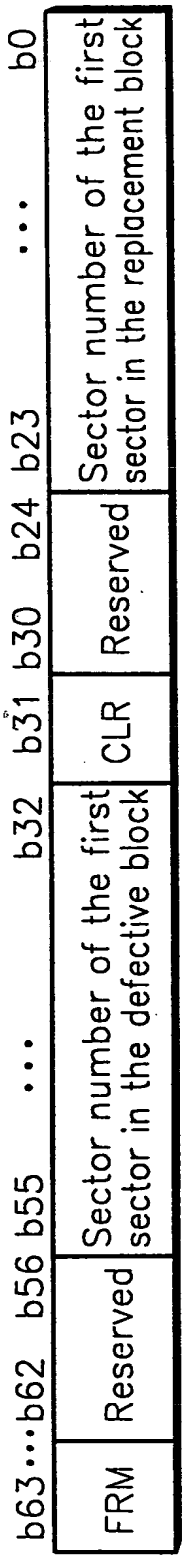
b63...b62
b56
b55
...
b32
b31
b30
b24
b23
...
b0
FRM
Reserved
Sector number of the first sector in the defective block
CLR
Reserved
Sector number of the first sector in the replacement block

FIG. 11

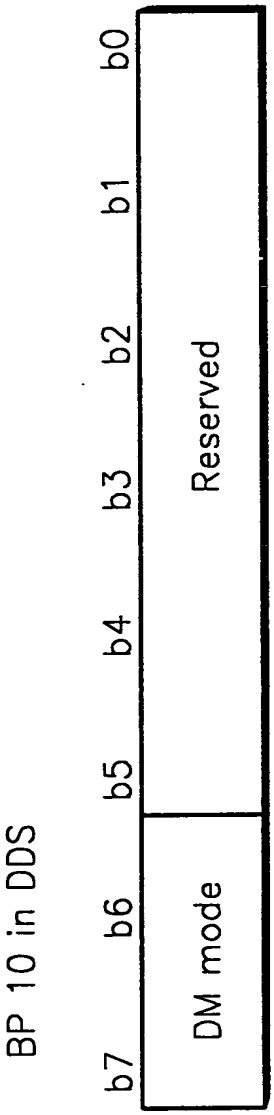
BP 10 in DDS
b7
b6
b5
b4
b3
b2
b1
b0
DM mode
Reserved

FIG. 12

Zone	# of sect per rev	Start Sector Number (Hex)	Guard Area	# of Guard blk	Group No.	User Area		Spare area		Guard area	End sector number
						Sector number	# of blk	Sector number	#of blk		
0	25	31000	–	0	0	31000 – 398DF	2190	–	0	398E0 – 3991F	3991F
1	26	39DD0	39920 – 3995F	4	1	39960 – 4381F	2540	–	0	43820 – 4385F	4385F
2	27	441F0	43860 – 4389F	4	2	438A0 – 4DD7F	2638	–	0	4DD80 – 4DDBF	4DDBF
3	28	4EC60	4DDC0 – 4DDFF	4	3	4DE00 – 588FF	2736	–	0	58900 – 5893F	5893F
4	29	59D20	58940 – 5897F	4	4	58980 – 63A9F	2834	–	0	63AA0 – 63ADF	63ADF
5	30	65430	63AE0 – 63B1F	4	5	63B20 – 6F25F	2932	–	0	6F260 – 6F29F	6F29F
6	31	71190	6F2A0 – 6F2DF	4	6	6F2E0 – 7B03F	3030	–	0	7B040 – 7B07F	7B07F
7	32	7D540	7B080 – 7B0BF	4	7	7B0C0 – 8743F	3128	–	0	87440 – 8747F	8747F
8	33	59F40	87480 – 874CF	5	8	874D0 – 93E4F	3224	–	0	93E50 – 93E9F	93E9F
9	34	96F90	93EA0 – 93EEF	5	9	93EF0 – A0E8F	3322	–	0	A0E90 – A0EDF	A0EDF
10	35	A4630	A0EE0 – A0F2F	5	10	A0F30 – AE4EF	3420	–	0	AE4F0 – AE53F	AE53F
11	36	B2320	AE540 – AE58F	5	11	AE590 – BC16F	3518	–	0	BC170 – BC1BF	BC1BF
12	37	C0660	BC1C0 – BC20F	5	12	BC210 – CA40F	3616	–	0	CA410 – CA45F	CA45F
13	38	CEFF0	CA460 – CA4AF	5	13	CA4B0 – D8CCF	3714	–	0	D8CD0 – D8D1F	D8D1F
14	39	DDFD0	D8D20 – D8D6F	5	14	D8D70 – E7BAF	3812	–	0	E7BB0 – E7BFF	E7BFF
15	40	ED600	E7C00 – E7C4F	5	15	E7C50 – F70AF	3910	–	0	F70B0 – F70FF	F70FF
16	41	FD280	F7100 – F715F	6	16	F7160 – 106BBF	4006	–	0	106BC0 – 106C1F	106C1F
17	42	10D550	106C20 – 106C7F	6	17	106C80 – 116CFF	4104	–	0	116D00 – 116D5F	116D5F
18	43	11DE70	116D60 – 116DBF	6	18	116DC0 – 12745F	4202	–	0	127460 – 1274BF	1274BF
19	44	12EDE0	1274C0 – 12751F	6	19	127520 – 1381DF	4300	–	0	1381E0 – 13823F	13823F
20	45	1403A0	138240 – 13829F	6	20	1382A0 – 14957F	4398	–	0	149580 – 1495DF	1495DF
21	46	151FB0	1495E0 – 14963F	6	21	149640 – 15AF3F	4496	–	0	15AF40 – 15AF9F	15AF9F
22	47	164210	15AFA0 – 15AFFF	6	22	15B000 – 16CF1F	4594	–	0	16CF20 – 16CF7F	16CF7F
23	48	176AC0	16CF80 – 16CFDF	6	23	16CFE0 – 17F51F	4692	–	0	17F520 – 17F57F	17F57F
24	49	1899C0	17F580 – 17F5EF	7	24	17F5F0 – 19212F	4788	–	0	192130 – 19219F	19219F
25	50	19CF10	1921A0 – 19220F	7	25	192210 – 1A536F	4886	–	0	1A5370 – 1A53DF	1A53DF
26	51	1B0AB0	1A53E0 – 1A544F	7	26	1A5450 – 1B8BCF	4984	–	0	1B8BD0 – 1B8C3F	1B8C3F
27	52	1C4CA0	1B8C40 – 1B8CAF	7	27	1B8CB0 – 1CCA4F	5082	–	0	1CCA50 – 1CCABF	1CCABF
28	53	1D94E0	1CCAC0 – 1CCB2F	7	28	1CCB30 – 1E0EEF	5180	–	0	1E0EF0 – 1E0F5F	1E0F5F
29	54	1EE370	1E0F60 – 1E0FCF	7	29	1E0FD0 – 1F59AF	5278	–	0	1F59B0 – 1F5A1F	1F5A1F
30	55	203850	1F5A20 – 1F5A8F	7	30	1F5A90 – 20AA8F	5376	–	0	20AA90 – 20AAFF	20AAFF
31	56	219380	20AB00 – 20AB6F	7	31	20AB70 – 22018F	5474	–	0	220190 – 2201FF	2201FF
32	57	22F500	220200 – 22027F	8	32	220280 – 235E9F	5570	–	0	235EA0 – 235F1F	235F1F
33	58	245CD0	235F20 – 235F9F	8	33	235FA0 – 24C1DF	5668	–	0	24C1E0 – 24C25F	24C25F
34	59	25CAF0	24C260 – 24C2DF	8	34	24C2E0 – 26329F	5884	2632A0 – 26509F	480	–	26509F

TITLE: RECORDING MEDIUM FOR STORING DEFECT MANAGEMENT ...
INVENTORS: Jung-wan KO
SERIAL NO.:
DOCKET NO.: 1293.1066D2C1

FIG. 13